

# Exhibit 34

**MATERIAL ANALYZED: Peek Tubing Samples For Study of Different Air Gaps Used During Extrusion**

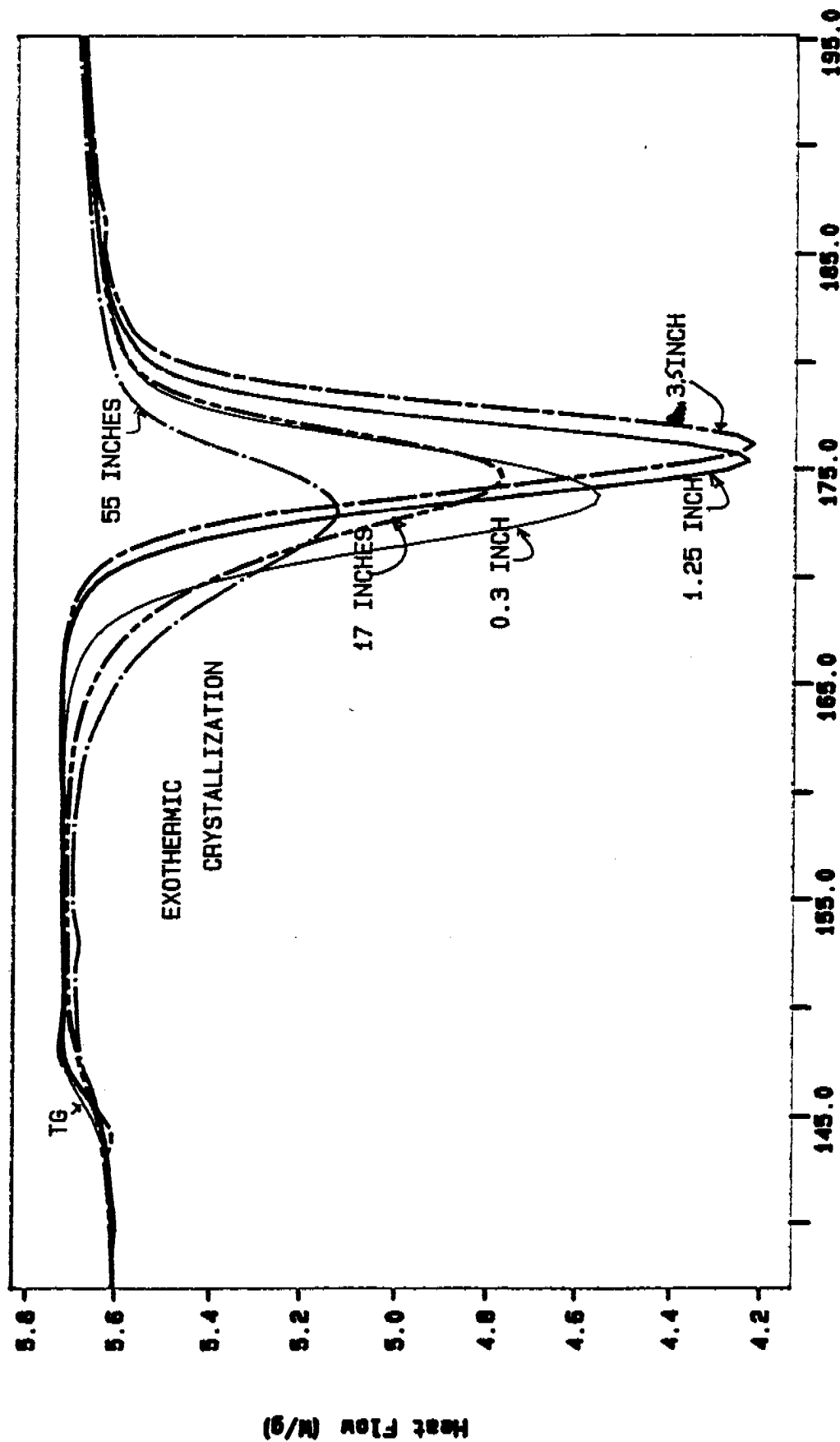
DSC Scanning Rate : 20°C/Minute

Temp 1 : 25°C

Temp 2 : 375°C

MATERIAL ANALYZED	Sample No.	Wt mg	Tg °C	EXOTHERM CRYST.		MELTING PEAK		$\Sigma\Delta H$ ( $\Delta H - \Delta H_{cc}$ ) J/g
				Tcc °C	$\Delta H_{cc}$ J/G	Tm °C	$\Delta H$ J/G	
1. Air Gap =0.3 Inch	A	4.34	145.1	173.70	25.51	338.20	38.40	12.89
	B	4.48	145.6	173.70	24.80	338.40	37.60	12.80
	Average	4.41	145.35	173.70	25.16	338.30	38.00	12.85
2. Air Gap =1.25 Inch	A	4.25	146.0	175.50	25.72	337.90	39.15	13.43
	B	4.53	145.6	175.40	26.18	337.30	42.10	15.92
	Average	4.39	145.80	175.45	25.95	337.60	40.63	14.68
3. Air Gap= 3.5 Inches	A	4.30	146.30	176.12	27.43	338.01	38.56	11.13
	B	4.42	145.70	176.70	26.50	338.00	38.57	12.07
	Average	4.36	146.00	176.41	26.97	338.01	38.57	11.60
4. Air Gap= 17 Inches	A	4.25	145.1	174.70	24.34	337.30	38.91	14.57
	B	4.41	145.3	174.60	23.90	337.60	38.20	14.30
	Average	4.33	145.20	174.65	24.12	337.45	38.56	14.44
5. Air Gap= 55 Inches	A	4.25	145.5	173.30	17.28	337.60	38.28	21.00
	B	4.37	145.4	173.30	17.10	337.30	39.34	22.24
	Average	4.31	145.45	173.30	17.19	337.45	38.81	21.62

Curve 1: DSC  
 File info: 1.25A Fri May 20 10:46:15 1994  
 Sample Weight: 4.251 mg  
 PEEK TUBING, AIR GAP STUDY



DATE: 5/23/94 TIME: 13:25:25  
 ANALYST: J. M. HARRIS  
 INSTRUMENT: PERKIN-ELMER 7 Series Thermal Analysis System  
 Mon May 23 13:25:25 1994

peak data	ACS and Acutech shafts		nom		water		basis		density		nominal		ave dim		enthalpy of	
rev date	5/19/94		[mil]		[mil]		[wt]		[gm/cm^3]		[in^2]		[in^2]		crystallization	
ext no	ext date		[mil]		[ml]										[J/gm]	
amorphous									1.263							
semi crys									rho=1.27 for 10C/min;		rho=1.30 for 1C/min					
crystalline									1.401							
Acutech	1st samp-lm		19.0		25.5						2.27E-04					
10-542																
10-543	3/10/94		32.0		37.0		32.39		0.7387		1.257		2.71E-04		3.04E-04	
543-rep											1.257					
10-544	3/10/94		18.0		23.0		17.98		0.4058		1.257		1.61E-04		1.67E-04	
544-rep											1.257					
Acutech	02-149-r2		32.5		39.5		32.97		1.0366		1.268		3.96E-04		4.23E-04	
Acutech-rep											1.268					
Acutech-ht	200C/30min								1.1015		1.288		4.42E-04			
10-552	3/25/94		30.0		37.0				0.6858		1.253		3.68E-04		2.83E-04	
552 rep											1.253					
10-553	3/25/94		30.0		38.0				0.7636		1.253		4.27E-04		3.15E-04	
553-rep											1.253				24.4	
10-553ht	200C/30min								0.8320		1.288					
10-554	3/25/94		33.0		39.0				0.7033		1.278		3.39E-04		2.86E-04	
554rep															14.2	
10-554ht	200C/30min								0.6889		1.289					
10-581									0.7696		1.255		2.76E-04		3.17E-04	
10-ag3	5/17/94		32.0		38.0		33.40		0.6347		1.266		3.30E-04		2.59E-04	
10-ag1	5/17/94		32.0		38.0		34.63		0.7555		1.27		3.30E-04		3.07E-04	
10-ag2	5/17/94		32.0		38.0		32.15		0.7485		1.277		3.30E-04		3.03E-04	
10-ag4	5/17/94		32.0		38.0		33.12		0.6407		1.285		3.30E-04		2.58E-04	
10-ag5	5/17/94		32.0		38.0		33.60		0.6127		1.300		3.30E-04		2.43E-04	
density in strikeout = low estimate 1 purge																
density in italics = estimate, not measured																
density in standard font = 2 purge data																

[illegible]

room temperature data											
strain rate = 0.1 min^-1											
strain rate = min^-1											
ext no	nom		ave dim		ey		sb/max		ave dim		nominal
	Et	[kpsi]	Et	[kpsi]	[in/in]	[kpsi]	[in/in]	sb/max	[in/in]	eb/max	
amorphous	380	380									
semi crys	460	460									
crystalline											
Acutech	385	8.03			0.03	8.4				0.71 ok for prox lm/om; too stiff for distal	
10-542											
10-543	415	370	8.25	7.36	0.03	19.5	17.4	1.31			
543-rep		350		7.63	0.03						
10-544	392	378	7.91	7.64	0.03	22.4	21.6	2.01	1/2 samples rt ult fx early		
544-rep		377		7.62	0.03						
Acutech	416	390	9.49	8.89	0.03	15.4	14.5	0.56	water od = 40.24		
Acutech-rep		415		8.86	0.03						
Acutech-ht		528		12.40	0.03						
10-552	275	358	5.79	7.54	0.03	15.9	20.7	2.28	8C water cooled		
552 rep		357		7.28	0.03						
10-553	258	350	5.47	7.42	0.03	16.2	21.9	2.86	70C water cooled		
553-rep		373		7.48	0.03						
10-553ht		421		11.90	0.04						
10-554	339	402	7.31	8.67	0.03	18.3	21.7	2.62	air cool		
554rep		422		8.83	0.03						
10-554ht		506		11.80	0.03						
10-581		362		7.45	0.03						
10-ag3	281	358	6.13	7.81	0.03	16.5	21.0	1.78	min		
10-ag1	320	343	6.98	7.49	0.03	19.4	20.8	1.99			
10-ag2	317	345	6.89	7.50	0.02	21.8	23.7	3.00	varlations in		
10-ag4	290	371	5.89	7.54	0.03	18.1	23.2	2.92	water bath distance		
10-ag5	300	406	6.76	9.16	0.03	17.3	23.4	2.43	max		
nominal values based on nominal dimensions											
ave values based on length-averaged area from basis + density											